



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 11, 2019

Ellen Baldassare
Lanxess Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275

Subject: PRIA Label Amendment – *Adding animal viruses*
Product Name: Virkon S
EPA Registration Number: 39967-137
Application Date: 10/9/2019
Decision Number: 556167

Dear Ms. Baldassare:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Stacey Grigsby by phone at 703.305.6440, or via email at grigsby.stacey@epa.gov

Sincerely,

A handwritten signature in red ink that reads "Jacqueline Hardy". The signature is written in a cursive style and is enclosed within a faint, light-colored rectangular border.

Jacqueline Hardy, Product Manager 34
Regulatory Management Branch 2
Antimicrobials Division (7510P)

Enclosure: Accepted stamped label

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
 [Virkon™ Aquatic Disinfectant and Virucide* – ABN]
 [trifectant™ Broad Spectrum Disinfectant – ABN]
 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

Virkon™ S

[Disinfectant and Virucide*]

[BROAD SPECTRUM DISINFECTANT,][FUNGICIDE] [& ALGAECIDE]

[Fragrance Free] [and] [Reduced Dye] [Fragrance and Dye Free]

For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities

[For Use in Emergency Disease Control related to Animal Health] [For Use in Emergency Disease Response related to Animal Health] [For Use in Emergency Disease Preparedness related to Animal Health] {note to reviewer- see page 28 for additional optional header text}

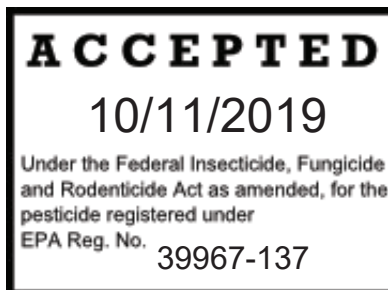
Effective against Viruses* [Including Canine Parvovirus*]

Bacteria

Fungi

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	21.41%
Sodium Chloride	1.50%
OTHER INGREDIENTS	77.09%
TOTAL	100.00%



[Equivalent to 9.75% Available Chlorine]

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

[See [Inside Booklet][back panel] [side panel] for [Additional Precautions] [and] [Directions for Use] [and] [Storage and Disposal instructions]]

[See [side]/[back] panel for additional precautions and leaflet for additional directions for use]

[See Side Panel for Precautionary Statements]

[Refer to accompanying labeling for additional precautions and complete directions for use]

[See leaflet for additional directions for use [and * explanatory notes.]]

EPA Reg. No. 39967-137

EPA Est. No. XXXXX-YY-ZZZ

<Lot or batch #> [Product Code#]

[Net Contents: XXX [(X-containers)] [(tablets)][see individual container]]

[POWDER FORM] [TABLET FORM] [TABLETS][SACHET FORM] [INDIVIDUAL SACHETS]

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[Virkon™ Professional – ABN]

Front Panel Continued

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[©[2017]][2018] [2019] LANXESS. trifectant™ is a registered trademark of Antec International Ltd.]

FIRST AID	
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.
If Swallowed:	Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
HOT LINE NUMBER	
For 24-hour emergency information on this product, call 866-673-6350. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.	

Manufactured for:
Lanxess Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275

[Distributed by:
Vetoquinol USA Inc.
4250 N. Sylvania Ave
Fort Worth, Texas 76137]

For information:
US/Canada (800) LANXESS
International +1 412 809 1000

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EFFECTIVE AGAINST THE FOLLOWING [PATHOGEN[S]]:

[ANIMAL AND ZOONOTIC PATHOGENS]

BACTERIA

[Actinobacillus pleuropneumoniae]

[Bacillus cereus]

[Brucella abortus]

[Campylobacter jejuni]

[Clostridium perfringens]

[Dermatophilus congolensis (2%)]

[Escherichia coli]

[Klebsiella pneumoniae]

[Mycoplasma gallisepticum]

[Mycoplasma hyopneumonia]

[Pasteurella multocida]

Pseudomonas aeruginosa

Salmonella enterica

Salmonella typhimurium

[Shigella sonnei]

[Staphylococcus aureus]

[Staphylococcus epidermidis]

[Streptococcus pyogenes]

[Streptococcus suis]

[*Not approved in California for use against the following bacteria*]

[Bordetella avium]

[Bordetella bronchiseptica]

[Fistulous withers (Poll Evil)]

[Haemophilus somnus]

[Helicobacter pylori]

[Leptospira canicola]

[Listeria monocytogenes]

[Moraxella bovis (Pink Eye)]

[Mycoplasma mycoides]

[Pseudomonas mallei (Glanders)]

[~~Pseudomonas~~ Proteus vulgaris] {note to reviewer- already approved claim, bacteria species name corrected}

[Streptococcus equi (Strangles)]

[Taylorella equigenitalis]

[Treponema hyodysenteriae]

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VIRUSES*

Avian Influenza Virus

[Avian [Infectious] Laryngotracheitis Virus] [(ILT)]

[Bovine Adenovirus Type 4]

[Canine Adenovirus (Canine Hepatitis)]

[Canine Parvovirus]

[Equine Herpes Virus (Type 1)]

[Equine Herpes Virus (Type 3)]

[Equine Influenza Virus (Type A)]

[Feline Calicivirus]

[Feline Panleukopenia Virus]

[Feline Rhinotracheitis Virus]

[Foot and Mouth Disease Virus]

[Newcastle Disease Virus]

[Simian Virus (SV40 Virus)]

[Not approved in California for use against the following viruses:]*

[Adenovirus Pneumonia]

[African Horse Sickness Virus]

[African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water)]

[Avian Adenovirus [(Type 2)]]

[Avian Reovirus]

[Bovine Polyoma Virus]

[Bovine Pseudocowpox Virus]

[Bovine Viral Diarrhea Virus (no hard water)]

[Calf Rotavirus (no hard water)]

[Canine Coronavirus]

[Canine Parainfluenza Virus]

[Chicken Anemia Virus]

[Coital Exanthema Virus]

[Distemper Virus]

[Duck Adenovirus (no hard water)]

[Duck Enteritis Virus]

[Egg Drop Syndrome Adenovirus]

[Equine Infectious Anemia Virus (Swamp Fever)]

[Equine Arteritis Virus (no hard water)]

[Equine Contagious Abortion Virus]

[Equine Papillomatosis Virus]

[Equine Influenza Virus (The Cough)]

Revision Submission Date: October 10, 2019

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[Feline Herpes Virus]

[Feline Infectious Peritonitis Virus]

[Feline Parvovirus]

[Hog Cholera Virus]

[Infectious Bronchitis Virus]

[Infectious Bursal Disease Virus]

[Infectious Canine Hepatitis Virus]

[Infectious Pancreatic Necrosis Virus]

[Infectious Salmon Anaemia Virus]

[Infective Bovine Rhinotracheitis Virus (no hard water)]

[Maedi- Visna Virus]

[Marek's Disease Virus]

[Mouse Parvovirus]

[PCV2 Virus (PMWS)]

[Porcine Epidemic Diarrhea Virus [(PEDv)]]

[Porcine Parvovirus]

[Porcine Reproductive and Respiratory Syndrome Virus (PRRS)]

[Porcine Rotavirus]

[Pseudorabies Virus (Aujeszky's Disease) (no hard water)]

[Rotaviral Diarrhea Virus]

[Snakehead Rhabdovirus]

[Swine Influenza Virus]

[Swine Vesicular Disease Virus]

[Transmissible Gastroenteritis Virus (TGE) (no hard water)]

[Turkey Herpes Virus (no hard water)]

[Turkey Rhinotracheitis Virus]

[Vesicular Stomatitis Virus]

[FUNGI]

[Trichophyton interdigitale mentagrophytes (2%)]

[Not approved in California for use against the following fungi:]

[Aspergillus flavus]

[Aspergillus fumigatus]

[Fusarium moniliforme]

[Microsporum canis]

[Trichophyton spp. (Ringworm)]

[Trichophyton spp. (Mud Fever)]

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[PLANT PATHOGENS]

[*Not approved in California for use against plant pathogens*]

[*Alternaria solani*]

[*Botrytis cinera*]

[*Colletotrichum coccodes*]

[*Didymella bryoniae*]

[*Fusarium oxysporum*]

[*Fusarium solani*]

[*Penicillium oxalicum*]

[*Phomopsis sclerotioides*]

[*Pyrenochaeta lycoopersici*]

[*Pythium aphanidermatum*]

[*Rhizoctonia solani*]

[*Sclerotinia sclerotiorum*]

[*Thielaviopsis basicola*]

[*Verticillium dahliae*]

[*Xanthomonas axonopodis*]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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BROAD SPECTRUM DISINFECTANT

Virkon™ S is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram negative bacteria, fungi (molds and yeasts — Not Approved for this use in California), and mycoplasma (spp. gallisepticum & hyopneumonia). Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., “no hard water,” “no soil 1% soil load,” and “use 2% solution. [Refer to Pathogen list for specific contact times and dilution rates [located within label booklet] [(refer to leaflet)]]”

[Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. Virkon™ S [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus*.]

[This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus* (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus*.]

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

[GENERAL INSTRUCTIONS—POULTRY AND FARM PREMISES

1. Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate surfaces with the use-diluted disinfecting solution for a period of 10 minutes.
[Refer to the Pathogen List for specific contact times and dilution rates.]
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.]

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[Fogging (Wet Misting) Instructions]

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon™ S dilution of 0.5% to 2.0% in water (1:200 to 1:50) (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.).

Apply use diluted solution at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a NIOSH/MSHA approved respirator, plus goggles, long sleeve shirts and pants.]

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[Virkon™ S DILUTION CHART

To achieve the appropriate use-diluted Virkon™ S concentration, fill container with the volume of water and quantity of powder or tablet(s) found in the following table. [Stir thoroughly until fully dissolved, then use.] [For a 1% solution, add one (1) tablet to one pint of water.] [For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water.] .

[{Powder:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Quart	0.15 ounces	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces [/ ½ Scoop]	1.3 ounces [/ 1 Scoop]	2.7 ounces [/ 2 Scoops]
10 Gallons	6.7 ounces [/ 5 Scoops]	13.4 ounces [/ 10 Scoops]	26.7 ounces [/ 20 Scoops]
50 Gallons	33.4 ounces [/ 25 Scoops]	66.8 ounces [/ 50 Scoops]	133.5 ounces [/ 100 Scoops]

Measuring cup provided.] [1 Scoop = 1.3 ounces] [1 measuring cup = 1 scoop = 1.3oz.]

[{Tablet:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Pint	-	1 tablet	2 tablets
1 Quart	1 tablet	2 tablets	4 tablets
1 Gallon	4 tablets	8 tablets	16 tablets

[{Sachet:}]

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Gallon	-	1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

{Dilution tables specific to each product form are optional and will appear on the appropriate form's label}

†† The 0.5% solution currently is not approved for use in California.

[Solutions are stable for 7 days. Do not soak metal objects in Virkon™ S for long periods. 10 minutes is maximum necessary contact time. [Refer to Pathogen list for specific contact times and exceptions].] One gallon of solution is sufficient to treat 135 sq. ft.] [This powder formulation is easily diluted for use in manual or machine operations.]

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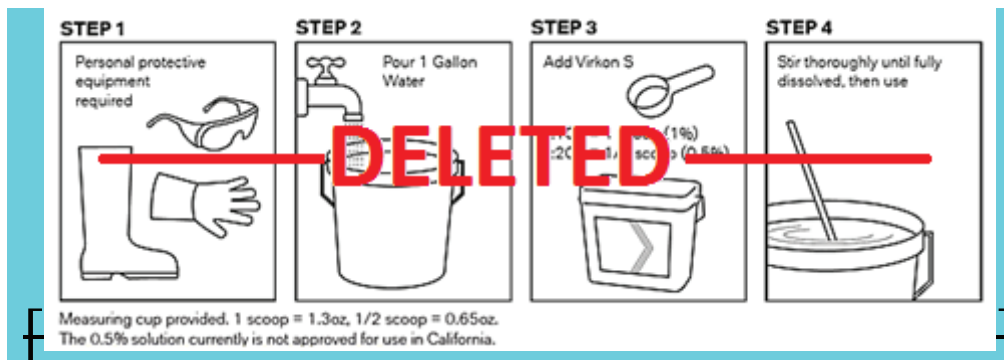
[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

{Optional pictograms for making an in-use solution, using select volumes from the dilution chart. }

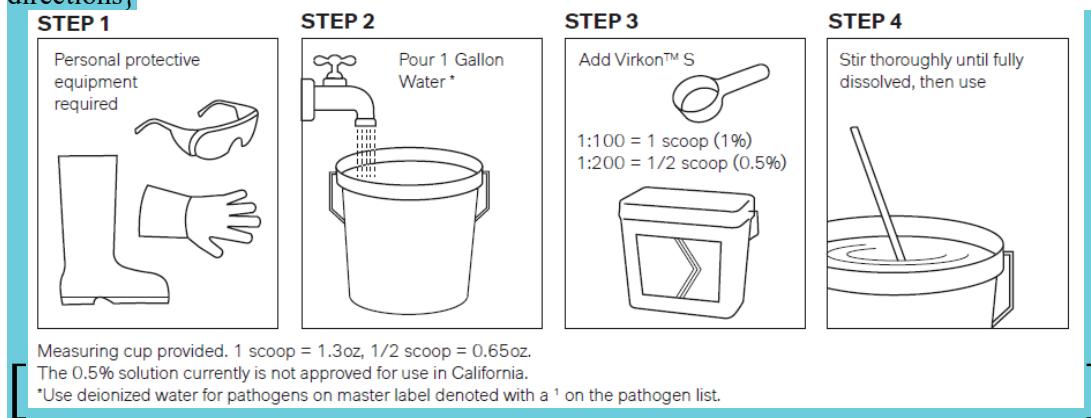
[How to make a ready-to-use Virkon™ S disinfectant solution:]

{From powder instructions, all text is 6pt or larger:}

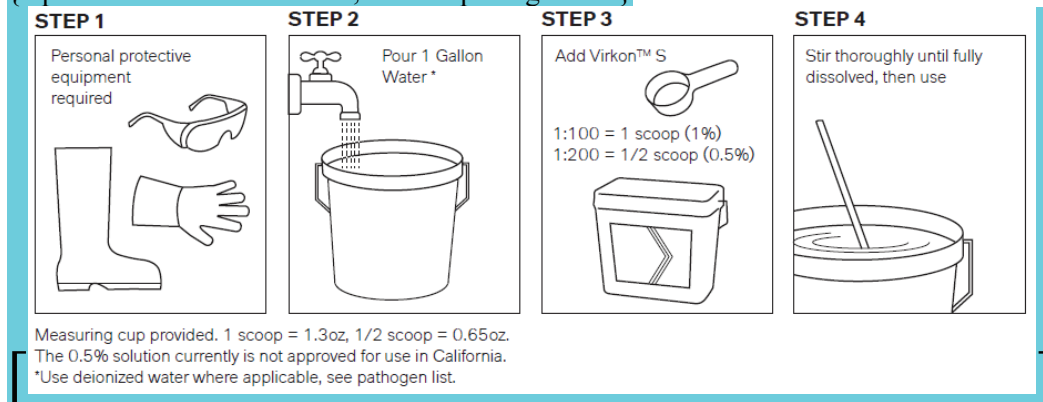


{pictogram above may be replaced with one of the following options}

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



{Option 1B: Deionized water, refer to pathogen list }



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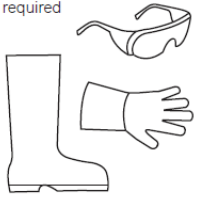
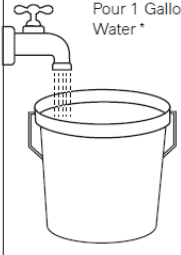
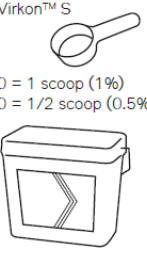

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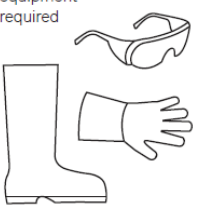
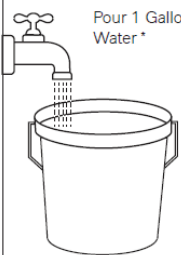
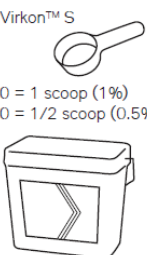

[Virkon™ Professional – ABN]

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}

STEP 1	STEP 2	STEP 3	STEP 4
<p>Personal protective equipment required</p> 	<p>Pour 1 Gallon Water *</p> 	<p>Add Virkon™ S</p>  <p>1:100 = 1 scoop (1%) 1:200 = 1/2 scoop (0.5%)</p>	<p>Stir thoroughly until fully dissolved, then use</p> 

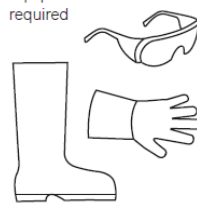
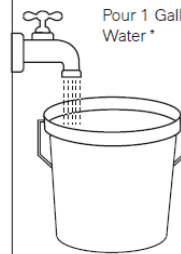
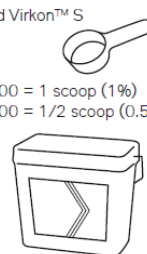

Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.
The 0.5% solution currently is not approved for use in California.
* Use distilled water for pathogens on master label denoted with a '1' on the pathogen list.

{Option 2B: Distilled water, refer to pathogen list}

STEP 1	STEP 2	STEP 3	STEP 4
<p>Personal protective equipment required</p> 	<p>Pour 1 Gallon Water *</p> 	<p>Add Virkon™ S</p>  <p>1:100 = 1 scoop (1%) 1:200 = 1/2 scoop (0.5%)</p>	<p>Stir thoroughly until fully dissolved, then use</p> 

Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.
The 0.5% solution currently is not approved for use in California.
*Use distilled water where applicable, see pathogen list.

{Option 3: No hard water, refer to pathogen list }

STEP 1	STEP 2	STEP 3	STEP 4
<p>Personal protective equipment required</p> 	<p>Pour 1 Gallon Water *</p> 	<p>Add Virkon™ S</p>  <p>1:100 = 1 scoop (1%) 1:200 = 1/2 scoop (0.5%)</p>	<p>Stir thoroughly until fully dissolved, then use</p> 

Measuring cup provided. 1 scoop = 1.3oz, 1/2 scoop = 0.65oz.
The 0.5% solution currently is not approved for use in California.
*No hard water for the pathogens indicated on pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

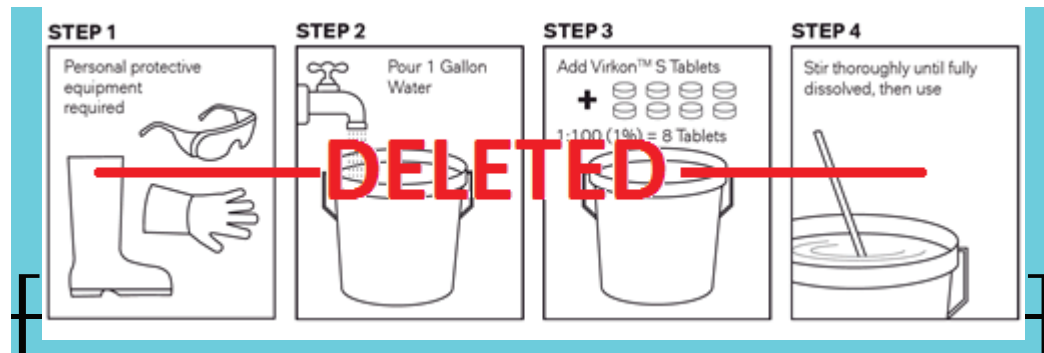
[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

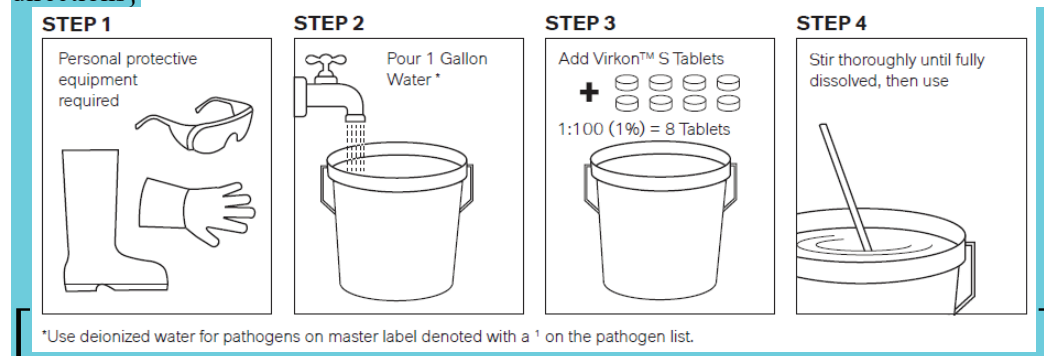
[How to make a ready-to-use Virkon™ S disinfectant solution:]

{From tablet instructions, all text is 6pt or larger:}

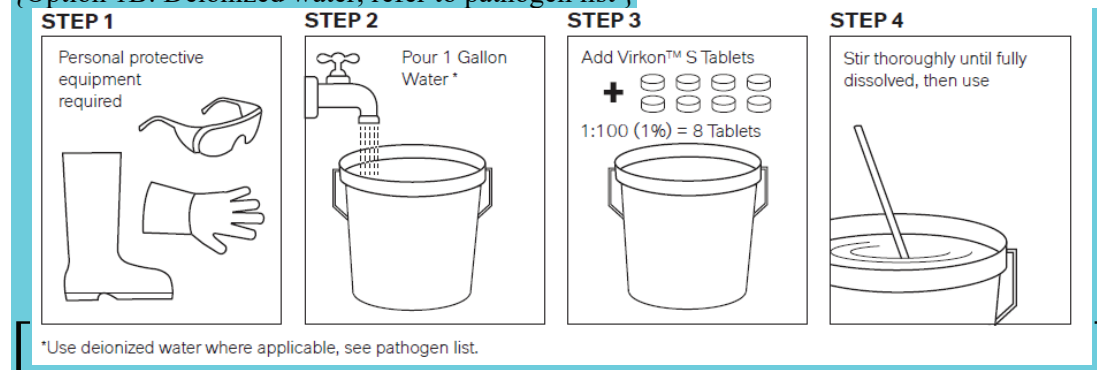


{pictogram above may be replaced with one of the following options:}

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}



{Option 1B: Deionized water, refer to pathogen list }



Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

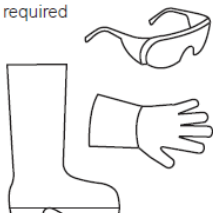
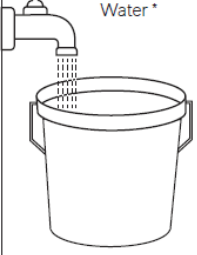

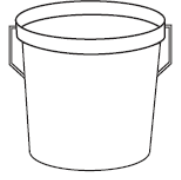

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

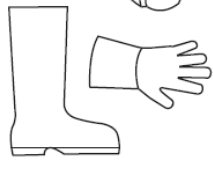
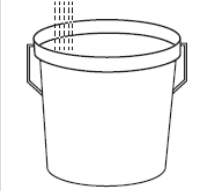
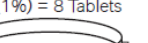


[Virkon™ Professional – ABN]

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}

STEP 1	STEP 2	STEP 3	STEP 4
Personal protective equipment required 	Pour 1 Gallon Water * 	Add Virkon™ S Tablets +  1:100 (1%) = 8 Tablets 	Stir thoroughly until fully dissolved, then use 


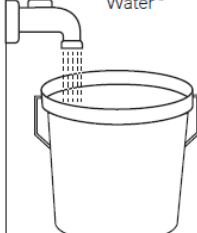

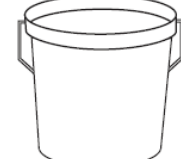

*Use distilled water for pathogens on master label denoted with a '1' on the pathogen list.

{Option 2B: Distilled water, refer to pathogen list}

STEP 1	STEP 2	STEP 3	STEP 4
Personal protective equipment required 	Pour 1 Gallon Water * 	Add Virkon™ S Tablets +  1:100 (1%) = 8 Tablets 	Stir thoroughly until fully dissolved, then use 

*Use distilled water where applicable, see pathogen list.

{Option 3: No hard water, refer to pathogen list }

STEP 1	STEP 2	STEP 3	STEP 4
Personal protective equipment required 	Pour 1 Gallon Water * 	Add Virkon™ S Tablets +  1:100 (1%) = 8 Tablets 	Stir thoroughly until fully dissolved, then use 

*No hard water for the pathogens indicated on pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
 [Virkon™ Aquatic Disinfectant and Virucide* – ABN]
 [trifectant™ Broad Spectrum Disinfectant – ABN]
 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

[[WATERPROOF] [RUBBER] [BOOT DISINFECTION] [BOOT BATH] [FOOT BATH]

[Virkon™ S at a 1% solution can be used for cleaning and disinfecting [rubber] [waterproof] boots**.] [Boot bath disinfectant] [Foot bath disinfectant] [How to make a Virkon™ S disinfectant boot bath]

[Boot bath and tray

Place boot bath or tray at entrances to ~~prevent~~ reduce cross contamination ~~from area to area on treated surfaces~~ in poultry and farm premises, livestock facilities and stalls, and animal containment areas.

1. Make a 1% solution of Virkon™ S by filling a suitable container with water and Virkon™ S according to the dilution table [from product label]. Stir thoroughly until fully dissolved. [Solutions are stable for 7 days.][Change the solution every 2 to 3 days or when it becomes visibly soiled]
2. Before application of Virkon™ S solution, rinse or brush footwear surfaces [including soles] to remove visible filth and heavy soil deposits.
3. Step into the container with boots on and use a clean brush to clean boots with disinfectant solution. [Alternatively user may remove boots and place in container of solution and then follow instructions to clean boots].
4. Wash boots thoroughly paying close attention to the soles. [Allow surfaces to remain wet for 10 minutes] *{alternative statement :[Surface contact time is 10 minutes]}**{one of two contact time statements must accompany step 4 language}*

**-Virkon™ S should only be used on water proof or non-porous footwear. Do not use on footwear that is damaged or permeable by water.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

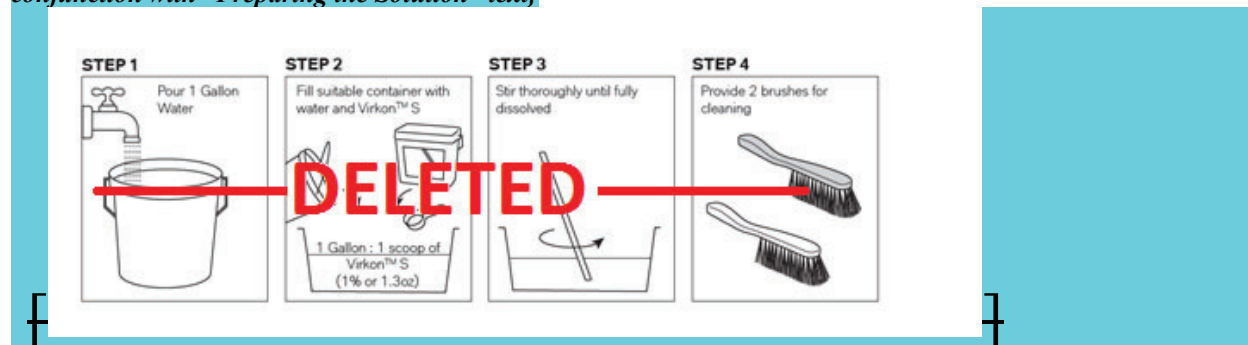
[Virkon™ Professional – ABN]

{Optional marketing graphics/pictograms for footwear disinfection:}

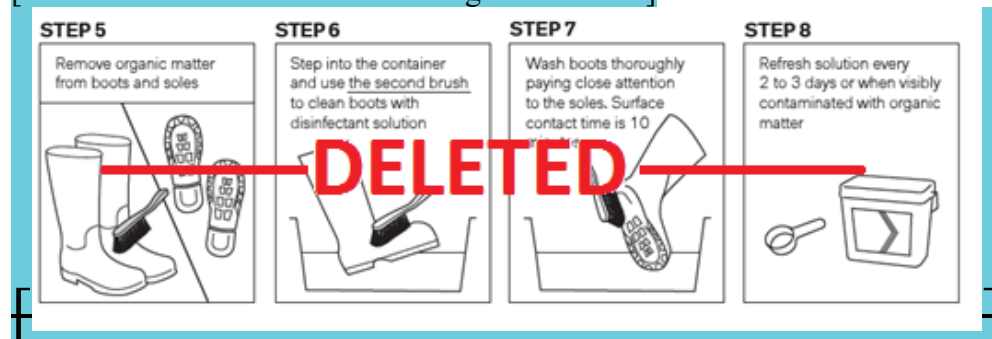
[How to make a Virkon™ S disinfectant boot bath:]

[Preparing the solution:] {may appear before Steps 1-4 pictogram}

[How to disinfect rubber boots using Virkon™ S:] {may appear before Steps 5-6 pictogram or in conjunction with “Preparing the Solution” text}



[How to disinfect rubber boots using Virkon™ S:]



{pictograms above may be replaced with one of the following options on the next page}

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

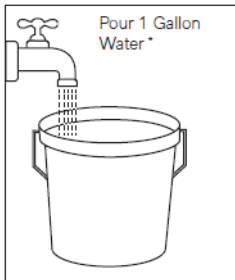
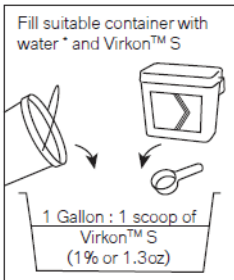
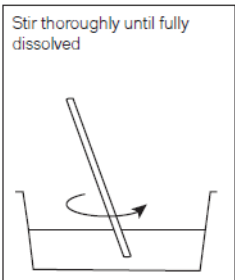



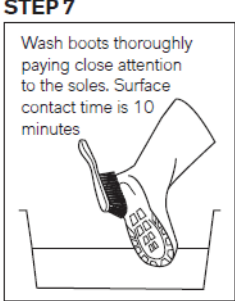
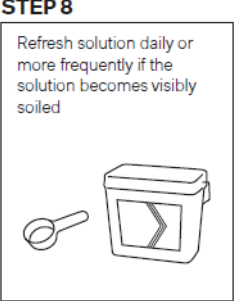
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

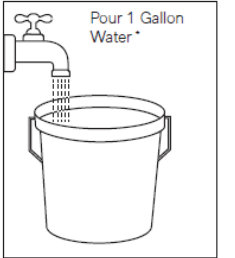
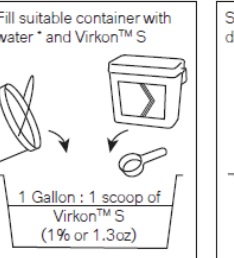
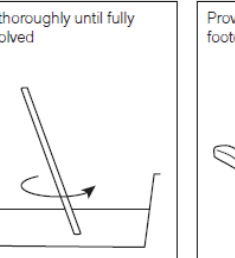

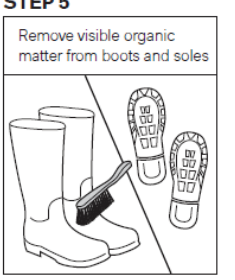

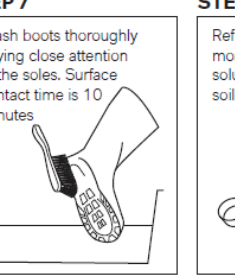

[Virkon™ Professional – ABN]

{Option 1A: Deionized water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}

STEP 1  <p>Pour 1 Gallon Water*</p>	STEP 2  <p>Fill suitable container with water* and Virkon™ S</p> <p>1 Gallon : 1 scoop of Virkon™ S (1% or 1.3oz)</p>	STEP 3  <p>Stir thoroughly until fully dissolved</p>	STEP 4  <p>Provide 2 brushes with footpad</p>
STEP 5  <p>Remove visible organic matter from boots and soles</p>	STEP 6  <p>Step into the boot bath and use the second brush to clean boots with disinfectant solution</p>	STEP 7  <p>Wash boots thoroughly paying close attention to the soles. Surface contact time is 10 minutes</p>	STEP 8  <p>Refresh solution daily or more frequently if the solution becomes visibly soiled</p>

*Use deionized water for pathogens on master label denoted with a 1 on the pathogen list.

{Option 1B: Deionized water, refer to pathogen list }

STEP 1  <p>Pour 1 Gallon Water*</p>	STEP 2  <p>Fill suitable container with water* and Virkon™ S</p> <p>1 Gallon : 1 scoop of Virkon™ S (1% or 1.3oz)</p>	STEP 3  <p>Stir thoroughly until fully dissolved</p>	STEP 4  <p>Provide 2 brushes with footpad</p>
STEP 5  <p>Remove visible organic matter from boots and soles</p>	STEP 6  <p>Step into the boot bath and use the second brush to clean boots with disinfectant solution</p>	STEP 7  <p>Wash boots thoroughly paying close attention to the soles. Surface contact time is 10 minutes</p>	STEP 8  <p>Refresh solution daily or more frequently if the solution becomes visibly soiled</p>

*Use deionized water where applicable, see pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

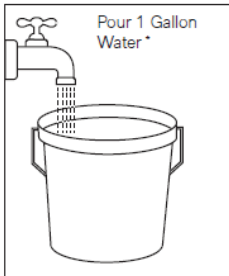
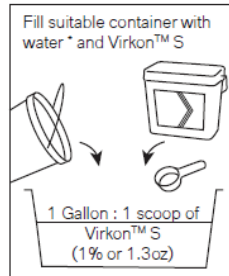
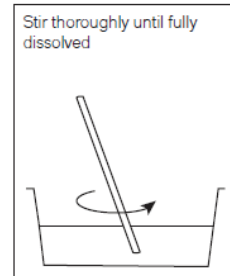



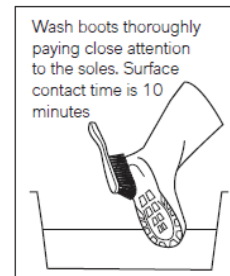
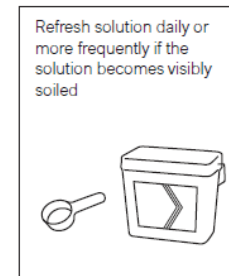
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

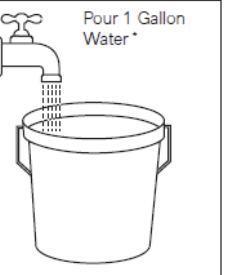
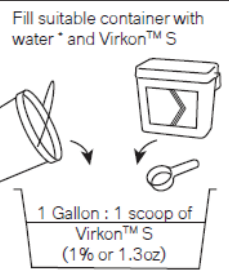
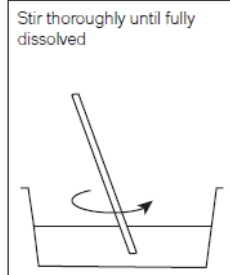



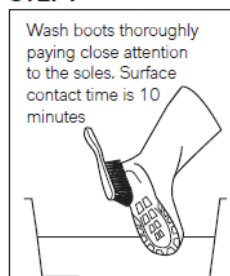
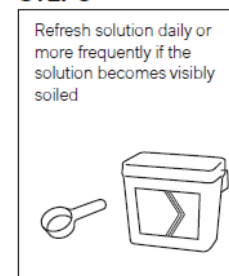
[Virkon™ Professional – ABN]

{Option 2A: Distilled water, refer to pathogen list for those pathogens denoted with 1 to correspond to directions}

STEP 1  <p>Pour 1 Gallon Water *</p>	STEP 2  <p>Fill suitable container with water * and Virkon™ S</p> <p>1 Gallon : 1 scoop of Virkon™ S (1% or 1.3oz)</p>	STEP 3  <p>Stir thoroughly until fully dissolved</p>	STEP 4  <p>Provide 2 brushes with footdip</p>
STEP 5  <p>Remove visible organic matter from boots and soles</p>	STEP 6  <p>Step into the boot bath and use the second brush to clean boots with disinfectant solution</p>	STEP 7  <p>Wash boots thoroughly paying close attention to the soles. Surface contact time is 10 minutes</p>	STEP 8  <p>Refresh solution daily or more frequently if the solution becomes visibly soiled</p>

* Use distilled water for pathogens on master label denoted with a * on the pathogen list.

{Option 2B: Distilled water, refer to pathogen list}

STEP 1  <p>Pour 1 Gallon Water *</p>	STEP 2  <p>Fill suitable container with water * and Virkon™ S</p> <p>1 Gallon : 1 scoop of Virkon™ S (1% or 1.3oz)</p>	STEP 3  <p>Stir thoroughly until fully dissolved</p>	STEP 4  <p>Provide 2 brushes with footdip</p>
STEP 5  <p>Remove visible organic matter from boots and soles</p>	STEP 6  <p>Step into the boot bath and use the second brush to clean boots with disinfectant solution</p>	STEP 7  <p>Wash boots thoroughly paying close attention to the soles. Surface contact time is 10 minutes</p>	STEP 8  <p>Refresh solution daily or more frequently if the solution becomes visibly soiled</p>

*Use distilled water where applicable, see pathogen list.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

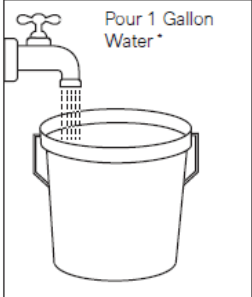
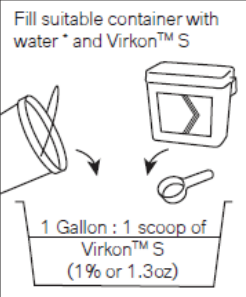
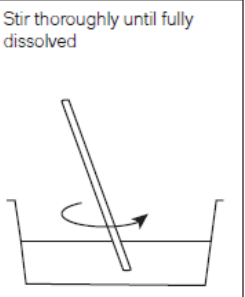

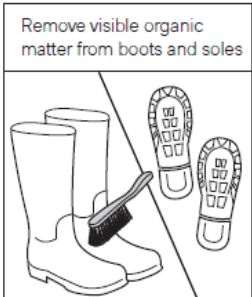

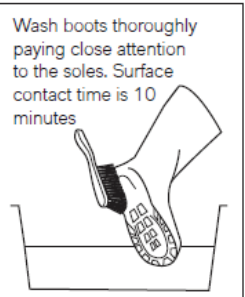
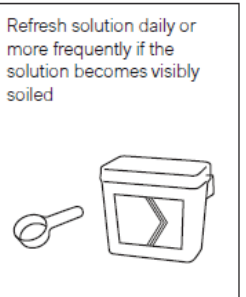
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]


[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

{Option 3: No hard water, refer to pathogen list }

STEP 1  Pour 1 Gallon Water *	STEP 2  Fill suitable container with water * and Virkon™ S 1 Gallon : 1 scoop of Virkon™ S (1% or 1.3oz)	STEP 3  Stir thoroughly until fully dissolved	STEP 4  Provide 2 brushes with footdip
STEP 5  Remove visible organic matter from boots and soles	STEP 6  Step into the boot bath and use the second brush to clean boots with disinfectant solution	STEP 7  Wash boots thoroughly paying close attention to the soles. Surface contact time is 10 minutes	STEP 8  Refresh solution daily or more frequently if the solution becomes visibly soiled

*No hard water for the pathogens indicated on pathogen list.

BOOT DISINFECTION REMOVE GROSS FILTH AND HEAVY SOIL DEPOSITS BEFORE APPLICATION OF THE DISINFECTING SOLUTION  KEEP SOLUTION FULL CHANGE WHEN SOILED » Virkon™ S	BOOT DISINFECTION REMOVE VISIBLE FILTH AND HEAVY SOIL DEPOSITS BEFORE APPLICATION OF THE DISINFECTING SOLUTION  KEEP SOLUTION FULL CHANGE WHEN SOILED » Virkon™ S
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{may appear in color or black and white}

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

[POULTRY PRODUCTION AND RATITE PRODUCTION]

[CONTROLS: Viruses of Newcastle Disease, Avian [Infectious] Laryngotracheitis virus and Avian Influenza virus; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Avian Adenovirus Type 2, Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease virus, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (~~molds and yeasts~~ – Not Approved for this use in California) Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.]

[HATCHERIES: Virkon™ S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate hard, non-porous surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
[Virkon™ Aquatic Disinfectant and Virucide* – ABN]
[trifectant™ Broad Spectrum Disinfectant – ABN]
[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
[Virkon™ Professional – ABN]

[Fogging (Wet Misting) Instructions—Poultry and Ratite Production]

Follow General Instructions to remove poultry and/or animals from room to be treated.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon™ S at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a NIOSH/MSHA approved respirator, plus goggles, long sleeve shirts and pants.]

[BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon™ S at 1% solution. Treated surfaces should remain visibly wet for duration of specified contact time. Thoroughly wash waterers and feeders with a 1% solution of Virkon™ S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.]

[PROCESSING PLANTS: Spray Virkon™ S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate hard, non-porous surfaces for a period of 10 minutes. Allow surfaces to air dry.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
 [Virkon™ Aquatic Disinfectant and Virucide* – ABN]
 [trifectant™ Broad Spectrum Disinfectant – ABN]
 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

[SWINE PRODUCTION] .

[CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Foot and Mouth Disease virus, Fungi of Trichophyton interdigitale mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza virus, Porcine Epidemic Diarrhea Virus (PEDv), Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS), Porcine Rotavirus, Pseudorabies virus, Rotaviral Diarrhea virus, African Swine Fever virus, Fungi of Fusarium moniliforme, and Bacteria of Treponema hyodysenteriae.] {note to reviewer PEDv is already approved claim, just adding new mention in this section}

[Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon™ S for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[Fogging (Wet Misting) --- Swine

~~Follow General Instructions to remove poultry and/or animals from room to be treated.~~

Use a 0.5% – 1.0% solution of Virkon™ S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide – ABN]

[Virkon™ Aquatic Disinfectant and Virucide – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide for Veterinary – ABN]

[Virkon™ Professional – ABN]

[EQUINE PRODUCTION]

[BROAD SPECTRUM EQUINE DISINFECTANT/DETERGENT/WASH FOR
CLEANING AND DISINFECTING STABLES AND EQUIPMENT]

[CONTROLS: Viruses of Equine herpes Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolensis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton interdigitale mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exanthema, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).]

[APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon™ S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[To Clean Blankets, Saddle Pads and Rugs: *Not an approved use in California*: Using a 1% solution of Virkon™ S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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 [Virkon™ Professional – ABN]

[BOVINE PRODUCTION]

[CONTROLS: Bovine Adenovirus Type 4, Foot and Mouth Disease virus ; Fungi of Trichophyton interdigitale mentragrophytes (2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, and Bacteria of Haemophilus somnus.]

[Follow General Instructions to remove livestock and pre-clean area to be treated. Use a 1% solution of Virkon™ S to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[Fogging (Wet Misting) --- Bovine]

~~Follow General Instructions to remove poultry and/or animals from room to be treated.~~

~~Use a 0.5% – 1.0% solution of Virkon™ S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].~~

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
 [Virkon™ Aquatic Disinfectant and Virucide* – ABN]
 [trifectant™ Broad Spectrum Disinfectant – ABN]
 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

[COMPANION ANIMALS]

[CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton interdigitale mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Feline parvovirus, Feline herpes; Bacteria of Leptospira canicola; Fungi of Microsporum canis.]

[APPLICATIONS: Use a 1% solution of Virkon™ S as a “one step” cleaning and disinfecting procedure (Remove visible filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages [caging systems] within or [associated with] Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon™ S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon™ S for long periods - 10 minutes is maximum contact time. [Refer to Pathogen list for specific contact times.]]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

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[Virkon™ Professional – ABN]

[GREENHOUSES AND HORTICULTURE]

[Virkon™ S is intended to disinfect inanimate hard, non-porous environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.]

[For surfaces and equipment

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use a dilution of 1:100 or 1.3 oz. Virkon™ S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces. [Refer to pathogen list for specified contact times.]
- 4) Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5) Reapply as often as needed for control. For clean non-porous hard surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon™ S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon™ S per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.]

[For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon™ S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon™ S for every gallon of cooler water.]

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[Virkon™ Professional – ABN]

[Virkon™ S may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.]

[Fogging (Wet Misting) Instructions – Greenhouse/Horticulture]

~~[Use a 0.5% – 1.0% solution of Virkon™ S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].~~

[AQUACULTURE] .

[Not approved for this use in California]

[Virkon™ S is intended to disinfect ~~inanimate~~ **inanimate hard, non-porous** environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon™ S may also be used in foot dips. Virkon™ S must not be applied directly to water.]

[Equipment used in separate sites, tanks, ponds in aquaculture settings must be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon™ S solution followed by a water rinse.]

[Fogging (Wet Misting) Instructions – Aquaculture]

~~[Use a 0.5% – 1.0% solution of Virkon™ S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions)].~~

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

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[Virkon™ Professional – ABN]

[EMERGENCY DISEASE CONTROL {ANIMAL HEALTH}] [EMERGENCY DISEASE RESPONSE ANIMAL HEALTH] [EMERGENCY DISEASE PREPAREDNESS ANIMAL HEALTH]

[Disinfection helps to ~~control and prevent the~~ reduce cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus†, Vesicular Stomatitis Virus†, Classical Swine Fever Virus†, (Hog Cholera virus†), African Swine Fever Virus†, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus†, and Mycoplasma mycoides† (Contagious Bovine Pleuropneumonia†).

†Not approved for this use in California.]

[Use a 1% solution of Virkon™ S to clean and disinfect ~~hard non-porous surfaces~~ [associated with] agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harboring Foot and Mouth Disease Virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers).

On surfaces that have been pre-cleaned with water [and soap or detergent] to remove organic deposits, spray Virkon™ S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Treated surfaces should remain visibly wet for duration of contact time. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon™ S for long periods - ~~10 minutes is maximum contact time.~~ [Refer to Pathogen List for specific contact times.]]

{Optional Additional related terminology }

[Animal Health: For Use in Emergency Disease Control] [Animal Health: For Use in Emergency Disease Response] [Animal Health: For Use in Emergency Disease Preparedness] {note to reviewer- see page 40 for additional optional marketing text related to the section above}

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

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[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS*

Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for ~~all~~ hard, non-porous surfaces against the following organism at the dilution rates specified below. If the [pathogen][virus]{either term may be used} is limited to ~~one of~~ the organism below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gallon
PCV2 virus* (PMWS)	1:200	0.7

[USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS]

[Use a 1% solution of Virkon™ S to clean and disinfect ~~inanimate~~ hard, non-porous surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon™ S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon™ S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on ~~inanimate~~ hard, non-porous surfaces, Virkon™ S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon™ S to pool on surfaces that may be within reach of animals. Do not allow Virkon™ S to come into direct contact with people. Allow Virkon™ S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

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[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME† (3 MINUTES) DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE CANINE PARVOVIRUS:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms with a 3 minute contact time when used at a dilution of 1:75. If the [pathogen][virus]{*either term may be used*} is limited to the organism below, Virkon™ S may be used at the following dilution rate:

Organism	Dilution	Oz./Gallon
CANINE PARVOVIRUS	1:75	1.7

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE [PORCINE EPIDEMIC DIARRHEA VIRUS, PORCINE ROTAVIRUS, AND PORCINE REPRODUCTIVE & RESPIRATORY SYNDROME][PEDv, PRRS, AND PORCINE ROTAVIRUS]† [Virkon™ S is effective [on] [against] PEDv, PRRS, AND PORCINE ROTAVIRUS at 1:600]† [Virkon™ S is effective against PEDv, PRRS, AND PORCINE ROTAVIRUS at a 1:600 dilution rate]†

†-Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gallon
PEDv virus†	1:600	0.215
PRRS	1:600	0.215
PORCINE ROTAVIRUS	1:600	0.215

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE [AVIAN INFLUENZA][AI]† [Virkon™ S is effective [on] [against] AVIAN INFLUENZA at 1:600]†
[Virkon™ S is effective against AVIAN INFLUENZA at a 1:600 dilution rate]†

†-Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organism at the dilution rate specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organism below, Virkon™ S may be used at the following dilution rate:

Organism	Dilution Rate	Oz./Gallon
AVIAN INFLUENZA	1:600	0.215

[COLD TEMPERATURE DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

[VIRKON™ S HAS BEEN PROVEN EFFECTIVE WHEN USED AT TEMPERATURES OF 5°C† FOR THE SPECIFIED PATHOGENS AT THE LISTED DILUTION RATES:]

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at room temperature. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms at a temperature of 5°C at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution	Oz./Gallon
AVIAN INFLUENZA virus	1:200	0.7
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7
AVIAN ADENOVIRUS Type 2	1:200	0.7
PEDv	1:200	0.7
PRRS	1:600	0.215
PORCINE ROTAVIRUS	1:600	0.215

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

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[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME† DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces against the following organisms with a 1 minute contact time at the dilution rates specified below. If the [pathogen][virus]{*either term may be used*} is limited to one of the organisms below, Virkon™ S may be used at the following dilution rates:

Organism	Dilution	Oz./Gallon
AVIAN INFLUENZA virus	1:200	0.7
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7
PEDv	1:200	0.7

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

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[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

[REDUCED CONTACT TIME, COLD TEMPERATURE (5°C), AND/OR INCREASED DILUTION† FOR DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASES:

† - Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection at a contact time of 10 minutes at room temperature. However, Virkon™ S is an effective disinfectant for hard, non-porous surfaces under specific listed conditions against the following organisms below. If the [pathogen][virus]{*either term may be used?*} is limited to one of the organisms below, Virkon™ S may be used when the corresponding conditions also are applied:

Organism	Dilution Rate	Oz. / Gallon	Contact Time (min)	Temperature (°C)
AVIAN ADENOVIRUS Type 2	1:200	0.7	10	5
AVIAN INFECTIOUS BRONCHITIS	1:200	0.7	1	5
AVIAN INFLUENZA virus	1:200	0.7	1	5
AVIAN INFLUENZA virus	1:600	0.215	10	RT
INFECTIOUS LARYNGOTRACHETIS VIRUS	1:200	0.7	10	RT
PEDv	1:200	0.7	1	5
PEDv	1:600	0.215	10	RT
PRRS	1:600	0.215	10	5
PORCINE ROTAVIRUS	1:600	0.215	10	5

(RT= Room temperature= 20-22°C)

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[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide for Veterinary – ABN]

[Virkon™ Professional – ABN]

{Note to reviewer items highlighted in yellow were approved via Fast track amendment edits on April 29, 2019 (EPA Decision #540360.) Any modifications to approved text appear highlighted in blue The distinction has been made as the current label was first considered by the Agency while the fast track amendment was still in review.}

{Optional equipment instructions: Hydrofoamer 481 dilution and detailed user information for use with Virkon™ S}

[Using the Hydrofoamer 481 (96oz.)^(†) – How to Make a Concentrated Stock Solution

10lb Pail of Virkon™ S = 160 oz. [(†)-Not approved for this use in California)]

(note to reviewer chart may appear as is or only showing 1:100 or 1:600 column.)

Dilution Factor (DF)	Hydrofoamer Tip Color	1:100 Dilution Rate (1.3 oz./gal)	1:600 Dilution Rate ¹ (0.22 oz./gal)
Calculation		$\frac{\text{oz.}}{\# \text{ of scoops}} = \frac{1.3 \text{ oz} \times \text{DF} \times \text{Volume of sprayer in gallons}}{\text{oz. Virkon™ S} / 1.3 \text{ oz.}}$	$\frac{\text{oz.}}{\# \text{ of scoops}} = \frac{0.22 \text{ oz.} \times \text{DF} \times \text{Volume of sprayer in gallons}}{\text{oz. Virkon™ S} / 1.3 \text{ oz.}}$
12:1	No Tip	11.7 oz Virkon™ S 9 scoops of Virkon™ S	1.98 oz Virkon™ S 1.5 scoops of Virkon™ S
14:1	White	13.65 oz Virkon™ S 10.5 scoops of Virkon™ S	2.31 oz Virkon™ S 1.8 scoops of Virkon™ S
16:1	Blue	15.6 oz Virkon™ S 12 scoops Virkon™ S	2.64 oz Virkon™ S 2 scoops Virkon™ S
18:1	Tan	N/A	2.97 oz Virkon™ S 2.3 scoops Virkon™ S
32:1	Orange	N/A	5.28 oz Virkon™ S 4 scoops Virkon™ S
64:1	Purple	N/A	10.56 oz Virkon™ S 8.1 scoops Virkon™ S

[A Virkon™ S solution would be highly concentrated at DF ratios above 1:16 for 1:100 dilution rate (not fully soluble), denoted as N/A.]

(¹The 1:600 dilution is only approved for viruses of Avian Influenza Virus, Porcine Epidemic Diarrhea virus, Porcine Reproductive and Respiratory Syndrome, and Porcine Rotavirus. Please consult product label and use directions for 1:600 dilution for specified and known organisms)]

[Convert your Hydrofoamer from ounces to gallons

32 oz = 0.25 gallon

96 oz = 0.75 gallon

64 oz = 0.5 gallon

128 oz = 1 gallon

1

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

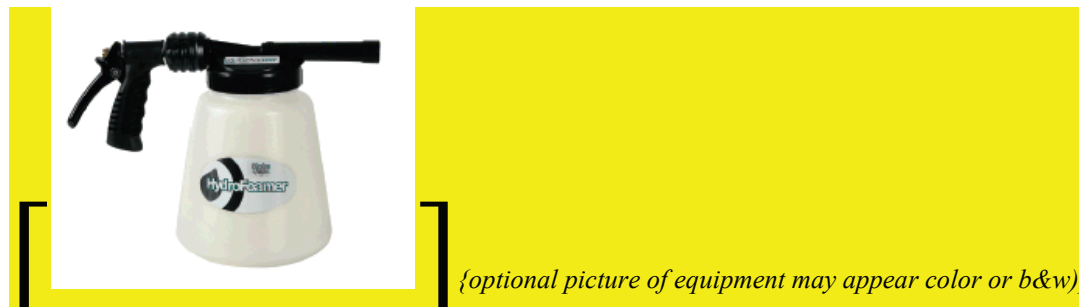
Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

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[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]



{Optional equipment instructions: How to make a 1:100 or 1:600 ready to use solution}{in-use solution}{note to reviewer chart may appear as is or only showing 1:100 or 1:600 column.}

How to make a Virkon™ S solution

Volume (gallon)	1:100 Dilution Rate (1.3 oz./gal)	1:600 Dilution Rate ^{1†} (0.22 oz./gal)
	Volume x 1.3 = oz. Virkon™ S	Volume x 0.22 = oz. Virkon™ S
1	1.3 oz.	0.22 oz
5	6.5 oz.	1.1 oz.
10	13.0 oz.	2.2 oz.
50	65.0 oz.	11.0 oz.

(†-Not approved for this use in California)

(¹Not all pathogens are approved for 1:600 dilution. Please consult product label and use directions for 1:600 dilution for specified and known organisms)

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Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal

PESTICIDE STORAGE:

For pails, [jugs], [bottles]: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. [Retain desiccant canister with product during storage.] Do not mix this product with other chemicals.

For [sachet] [pouch] [packet] [bag]: Store in a cool dry place. Keep out of reach of children. [Retain desiccant canister with product during storage.] Do not mix this product with other chemicals.

[For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.]

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. [Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.]^{1} [-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. [Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment.] [Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.]^{2} [-refer to product [leaflet] [insert] [booklet][label] for container disposal instructions]

^{1}Note to reviewer: When the size of container prohibits fitting full statement on the container, the text in brackets denoted in [...] ¹ above will be replaced with the below statement in red:

[-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

Please note this will only occur when the full statement (denoted in [...] ¹) instead appears on additional labeling accompanying or included with each container of product.

^{2}Note to reviewer: When the size of container prohibits fitting full statement on the container, the text in brackets denoted in [...] ² above will be replaced with the below statement in red:

[-refer to product [leaflet] [insert] [booklet] [label] for pesticide disposal instructions]

Please note this will only occur when the full statement (denoted in [...] ²) instead appears on additional labeling accompanying or included with each container of product.

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

{Optional company logo-may appear in color, black only, or grey scale}

[**LANXESS**] [**LANXESS**
Energizing Chemistry]

[**LANXESS**] [**LANXESS**
Energizing Chemistry]

{Optional Product Specific Branding/Marketing Logos- may appear in color, black only, or grey scale}

»Virkon™ S »Virkon™ S »Virkon™ S
[S] [S] [S]

»Virkon™ S »Virkon™ S »Virkon™ S
[S] [S] [S]

 {← may appear in color or black and white}

»Virkon™ AQUATIC »Virkon™ AQUATIC »Virkon™ AQUATIC
[AQUATIC] [AQUATIC] [AQUATIC]

trifectant™ trifectant™
[BROAD SPECTRUM DISINFECTANT] [BROAD SPECTRUM DISINFECTANT]

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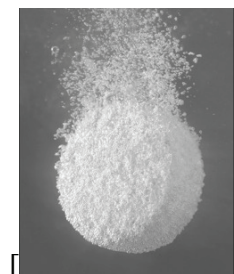
[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

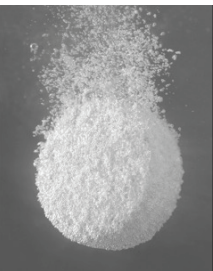
[Virkon™ Professional – ABN]

[] [] {←These brand logos are specific to the tablet form of the product only and will only appear on the appropriate form's labeling}

[] []

[] []



[] {Optional tablet picture to be used on insert/leaflet for tablet form only}

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 [Virkon™ Professional – ABN]

{Additional Marketing Claims}

[Will not harm most surfaces upon incidental contact]

[Will not harm most hard non-porous surfaces]

[Compatible with most surfaces upon incidental contact]

[Compatible with most hard non-porous surfaces]

[Non-damaging to most surfaces upon incidental contact]

[Non-damaging to most hard non-porous surfaces]

{The following text will only appear on or in reference to specific products formulated in the US (at an EPA Registered Establishment, located in the USA) where at least 85% of the product's content is of domestic origin or processing}

[85% US Content Made in USA of US & Imported Materials]

**85% US Content
 Made in USA
 of US & Imported
 Materials**

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in facilities for [swine], [poultry], [dairy], [and] [equine]] [~~farms~~] and [~~animal holding facilities~~]

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in [swine] [poultry], [dairy], [equine], [animal] holding facilities.]

[Destroys bacteria, fungi, viruses* on hard non-porous surfaces found in [shelters] and/or [vet] [clinics] [practices]]

[Poultry facility] [Ratite facility] [Swine facility] [Companion Animal facility] disinfectant
 [For Barriers, End of production cycle and daily use]

[Approved for use against pathogens* known to cause epidemic outbreaks (*-See pathogen table for full list of efficacy)]

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 [Virkon™ Professional – ABN]

{Optional Animal Health Marketing language related to “For Use in Emergency Disease Control related to Animal Health”}

[For Use in Emergency Disease Control [in] [related to] Swine [Production]]

[For Use in Emergency Disease Control [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Control [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Control [in] [related to] Equine [Production]]

[For Use in Emergency Disease Control [in] [related to] Bovine [Production]]

[For Use in Emergency Disease Response [in][related to] Swine [Production]]

[For Use in Emergency Disease Response [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Response [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Response [in] [related to] Equine [Production]]

[For Use in Emergency Disease Response [in] [related to] Bovine [Production]]

[For Use in Emergency Disease Preparedness Response [in][related to] Swine [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Poultry [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Turkey [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Equine [Production]]

[For Use in Emergency Disease Preparedness Response [in] [related to] Bovine [Production]]

{turkey= RATITE }

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 [Virkon™ Professional – ABN]

[Virkon™ Professional: For [Routine] [Daily] Disinfection]

[Virkon™ Professional: [Routine][Daily] Disinfection for Veterinary Clinics & Companion Animal facilities]

[Virkon™ Professional: Companion Animal Facility Disinfectant]

[Performs in the laboratory. Performs on the Farm.]

[Effective against food-poisoning pathogens [Salmonella enterica] [Salmonella typhimurium] [Campylobacter jejuni] [Escherichia coli] [Listeria monocytogenes] [Clostridium perfringens] [and] [Staphylococcus aureus]]

[Effective boot bath disinfectant]

[Independently proven broad spectrum efficacy]

[No need for rotation]

[No need for a rotational program]

[Easy to transport and store]

[Safe to use on floors, equipment, cages and kennels, when used as directed]

[Cleans [mineral deposits associated with] hard water scale]

[Cleans stains from algae]

[Cleans hard water stains]

[Cleans mineral deposits]

[Parvocidal[†]][(† Not approved in California for this use, except for Canine Parvovirus)]
 {deleted}

[Parvocidal Disinfectant[†]][(† Not approved in California for this use, except for Canine Parvovirus)] {deleted}

[Effective against Canine Parvovirus in 3 minutes at a 1:75 dilution rate][Virkon™ S is effective against Canine Parvovirus: {in burger dots} 3 minutes {burger dot} 1:75 dilution

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

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[Virkon™ Professional – ABN]

rate][Virkon™ S is effective against Canine Parvovirus in 3 minutes at a 1:75 dilution rate]

[Not Approved for this use in California]

[Effective against known pathogen of Canine Parvovirus in 3 minutes at a 1:75 dilution rate¹]

[¹Not Approved for this use in California]

{Marketing claims related to use at 1:600 dilution, reduced contact time, and/or cold temperatures of 5°C (note to reviewer in all statements the use of 'poultry' or 'swine' in the brackets above shall not appear without at least one of the specific pathogens listed)}

[Effective at cold temperature[†], 5°C, against known [poultry] [swine] pathogen[s] of [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

[Effective at reduced contact time[†] of 1 minute against known [poultry] [swine] pathogen[s] of [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [[†]-Not Approved for this use in California]

[Effective at 1:600 dilution[†] against known [poultry] [swine] pathogen[s] of [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

[Virkon™ S is effective at cold temperature[s][†], 5°C, against [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

[Virkon™ S is effective at reduced contact time[s][†], 1 minute, against [[poultry] [swine] pathogen[s]]: [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [[†]-Not Approved for this use in California]

[Virkon™ S is effective at a 1:600 dilution[†] against [[poultry] [swine] pathogen[s]]: [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

[Virkon™ S can be used at 5°C[†] against [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

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 [Virkon™ Professional – ABN]

[Virkon™ S can be used with a contact time[†] of 1 minute against [[poultry] [swine] pathogen[s]]: [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [and] [PEDv] [¹-Not Approved for this use in California]

[Virkon™ S can be used at a 1:600 dilution[†] against [[poultry] [swine] [pathogen[s]]: [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]] [[†]-Not Approved for this use in California]

[Cold temperature disinfectant[ion], 5°C, [against] [for] [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Cold weather disinfectant, 5°C, [against] [for] [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Effective in low temperatures, 5°C, against [[poultry] [swine] pathogen[s]]: [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine [Virkon™ S - proven effective in cold temperatures, 5°C against [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Proven efficacy in cold winter temperatures, 5°C, against [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

[Effective low-temperature performance, 5°C, against [AVIAN ADENOVIRUS Type 2] [AVIAN INFECTIOUS BRONCHITIS] [AVIAN INFLUENZA virus] [PEDv] [PRRS][and] [Porcine rotavirus]]

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{Note to reviewer- Optional Table to be reproduced either in part or full in marketing materials and/or labeling- all columns will appear but only partial list of pathogens may appear depending on the literature purpose. User will also be directed to consult product label for directions for use}

[PATHOGEN LIST]

PATHOGEN	Dilution Rate	Oz./ Gallon	Contact Time	Temp.
VIRUSES*				
Adenovirus Pneumonia†	1:100	1.3 oz	10 mins	RT
African Horse Sickness Virus†	1:100	1.3 oz	10 mins	RT
African Swine Fever Virus† ²	1:100	1.3 oz	10 mins	RT
Avian Adenovirus Type 2†	1:200	0.7 oz	10 mins	5°C
Avian Infectious Bronchitis†	1:200	0.7 oz	10 mins	5°C
Avian Infectious Bronchitis†	1:200	0.7 oz	1 min	RT
Avian Infectious Bronchitis†	1:200	0.7 oz	1 min	5°C
Avian Influenza Virus	1:100	1.3 oz	10 mins	RT
Avian Influenza Virus	1:200†	0.7 oz	10 mins	5°C
Avian Influenza Virus	1:200†	0.7 oz	1 min	RT
Avian Influenza Virus	1:200†	0.7 oz	1 min	5°C
Avian Influenza Virus	1:600†	0.215 oz	10 mins	RT
Avian Influenza Virus	1:600†	0.215 oz	10 mins	RT
Avian Influenza Virus	1:100	1.3 oz	10 mins	RT
Avian [Infectious] Laryngotracheitis Virus	1:100	1.3 oz	10 mins	RT
Avian [Infectious] Laryngotracheitis virus	1:200†	0.7 oz	10 mins	5°C
Avian Reovirus†	1:100	1.3 oz	10 mins	RT
Bovine Adenovirus Type 4	1:100	1.3 oz	10 mins	RT
Bovine Polyoma Virus†	1:100	1.3 oz	10 mins	RT
Bovine Pseudocowpox Virus†	1:100	1.3 oz	10 mins	RT
Bovine Viral Diarrhea Virus† ¹	1:100	1.3 oz	10 mins	RT
Calf Rotavirus† ¹	1:100	1.3 oz	10 mins	RT
Canine Adenovirus (Canine Hepatitis)	1:100	1.3 oz	10 mins	RT
Canine Coronavirus†	1:100	1.3 oz	10 mins	RT
Canine Parainfluenza Virus†	1:100	1.3 oz	10 mins	RT
Canine Parvovirus	1:75†	1.9 oz	3 mins	RT
Canine Parvovirus	1:100	1.3 oz	10 mins	RT
Chicken Anemia Virus†	1:100	1.3 oz	10 mins	RT
Coital Exanthema Virus†	1:100	1.3 oz	10 mins	RT
Distemper Virus†	1:100	1.3 oz	10 mins	RT
Duck Adenovirus† ¹	1:100	1.3 oz	10 mins	RT
Duck Enteritis Virus†	1:100	1.3 oz	10 mins	RT
Egg Drop Syndrome Adenovirus†	1:100	1.3 oz	10 mins	RT

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Equine Arteritis Virus† ¹	1:100	1.3 oz	10 mins	RT
Equine Contagious Abortion Virus†	1:100	1.3 oz	10 mins	RT
Equine Herpes Virus (Type 1)	1:100	1.3 oz	10 mins	RT
Equine Herpes Virus (Type 3)	1:100	1.3 oz	10 mins	RT
Equine Infectious Anemia Virus (Swamp Fever)†	1:100	1.3 oz	10 mins	RT
Equine Influenza Virus (The Cough)†	1:100	1.3 oz	10 mins	RT
Equine Influenza Virus (Type A)	1:100	1.3 oz	10 mins	RT
Equine Papillomatosis Virus†	1:100	1.3 oz	10 mins	RT
Feline Calicivirus	1:100	1.3 oz	10 mins	RT
Feline Herpes Virus†	1:100	1.3 oz	10 mins	RT
Feline Infectious Peritonitis Virus†	1:100	1.3 oz	10 mins	RT
Feline Panleukopenia Virus	1:100	1.3 oz	10 mins	RT
Feline Parvovirus†	1:100	1.3 oz	10 mins	RT
Feline Rhinotracheitis Virus	1:100	1.3 oz	10 mins	RT
Foot and Mouth Disease Virus	1:100	1.3 oz	10 mins	RT
Hog Cholera Virus†	1:100	1.3 oz	10 mins	RT
Infectious Bronchitis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Bursal Disease Virus†	1:100	1.3 oz	10 mins	RT
Infectious Canine Hepatitis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Pancreatic Necrosis Virus†	1:100	1.3 oz	10 mins	RT
Infectious Salmon Anaemia Virus†	1:100	1.3 oz	10 mins	RT
Infective Bovine Rhinotracheitis Virus† ¹	1:100	1.3 oz	10 mins	RT
Maedi- Visna Virus†	1:100	1.3 oz	10 mins	RT
Marek's Disease Virus†	1:100	1.3 oz	10 mins	RT
Mouse Parvovirus†	1:100	1.3 oz	10 mins	RT
Newcastle Disease Virus	1:100	1.3 oz	10 mins	RT
PCV2 Virus (PMWS)†	1:100	1.3 oz	10 mins	RT
PCV2 Virus (PMWS)†	1:200	0.7 oz	10 mins	RT
PEDv Virus†	1:100	1.3 oz	10 mins	RT
PEDv Virus†	1:200	0.7 oz	10 mins	5°C
PEDv Virus†	1:200	0.7 oz	1 min	RT
PEDv Virus†	1:200	0.7 oz	1 min	5°C
PEDv Virus†	1:600	0.215 oz	10 mins	RT
Porcine Parvovirus†	1:100	1.3 oz	10 mins	RT
Porcine Reproductive and Respiratory Syndrome virus (PRRS)†	1:100	1.3 oz	10 mins	RT
Porcine Reproductive and Respiratory Syndrome virus (PRRS)†	1:600	0.215 oz	10 mins	RT
Porcine Reproductive and Respiratory Syndrome virus (PRRS)†	1:600	0.215 oz	10 mins	5°C
Porcine Rotavirus†	1:100	1.3 oz	10 mins	RT

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Porcine Rotavirus†	1:600	0.215 oz	10 mins	RT
Porcine Rotavirus†	1:600	0.215 oz	10 mins	5°C
Pseudorabies Virus (Aujeszky's Disease)† ¹	1:100	1.3 oz	10 mins	RT
Rotaviral Diarrhea Virus†	1:100	1.3 oz	10 mins	RT
Simian Virus (SV40 Virus)	1:100	1.3 oz	10 mins	RT
Snakehead Rhabdovirus†	1:100	1.3 oz	10 mins	RT
Swine Influenza Virus†	1:100	1.3 oz	10 mins	RT
Swine Vesicular Disease Virus†	1:100	1.3 oz	10 mins	RT
Transmissible Gastroenteritis Virus (TGE)† ¹	1:100	1.3 oz	10 mins	RT
Turkey Herpes Virus† ¹	1:100	1.3 oz	10 mins	RT
Turkey Rhinotracheitis Virus†	1:100	1.3 oz	10 mins	RT
Vesicular Stomatitis Virus†	1:100	1.3 oz	10 mins	RT
BACTERIA				
Actinobacillus pleuropneumoniae	1:100	1.3 oz	10 mins	RT
Bacillus cereus	1:100	1.3 oz	10 mins	RT
Bordetella avium†	1:100	1.3 oz	10 mins	RT
Bordetella bronchiseptica†	1:100	1.3 oz	10 mins	RT
Brucella abortus	1:100	1.3 oz	10 mins	RT
Campylobacter jejuni	1:100	1.3 oz	10 mins	RT
Clostridium perfringens	1:100	1.3 oz	10 mins	RT
Dermatophilus congolensis (2%)	1:50	2.7 oz	10 mins	RT
Escherichia coli	1:100	1.3 oz	10 mins	RT
Fistulous withers (Poll Evil)†	1:100	1.3 oz	10 mins	RT
Haemophilus somnus†	1:100	1.3 oz	10 mins	RT
Helicobacter pylori†	1:100	1.3 oz	10 mins	RT
Klebsiella pneumoniae	1:100	1.3 oz	10 mins	RT
Leptospira canicola†	1:100	1.3 oz	10 mins	RT
Listeria monocytogenes†	1:100	1.3 oz	10 mins	RT
Moraxella bovis (Pink Eye)†	1:100	1.3 oz	10 mins	RT
Mycoplasma gallisepticum	1:100	1.3 oz	10 mins	RT
Mycoplasma hyopneumoniae	1:100	1.3 oz	10 mins	RT
Mycoplasma mycoides†	1:100	1.3 oz	10 mins	RT
Pasteurella multocida	1:100	1.3 oz	10 mins	RT
Pseudomonas aeruginosa	1:100	1.3 oz	10 mins	RT
Pseudomonas mallei (Glanders)†	1:100	1.3 oz	10 mins	RT
Proteus vulgaris†	1:100	1.3 oz	10 mins	RT
Salmonella enterica	1:100	1.3 oz	10 mins	RT
Salmonella typhimurium	1:100	1.3 oz	10 mins	RT
Shigella sonnei	1:100	1.3 oz	10 mins	RT
Staphylococcus aureus	1:100	1.3 oz	10 mins	RT
Staphylococcus epidermidis	1:100	1.3 oz	10 mins	RT

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[Virkon™ Professional – ABN]

Streptococcus equi (Strangles)†	1:100	1.3 oz	10 mins	RT
Streptococcus pyogenes	1:100	1.3 oz	10 mins	RT
Streptococcus suis	1:100	1.3 oz	10 mins	RT
Taylorella equigenitalis†	1:100	1.3 oz	10 mins	RT
Treponema hyodysenteriae†	1:100	1.3 oz	10 mins	RT
FUNGI				
Aspergillus flavus†	1:100	1.3 oz	10 mins	RT
Aspergillus fumigatus†	1:100	1.3 oz	10 mins	RT
Fusarium moniliforme†	1:100	1.3 oz	10 mins	RT
Microsporium canis†	1:100	1.3 oz	10 mins	RT
Trichophyton interdigitale (2%)	1:50	2.7 oz	10 mins	RT
PLANT PATHOGENS				
Alternaria solani†	1:100	1.3 oz	10 mins	RT
Botrytis cinera†	1:100	1.3 oz	10 mins	RT
Colletotrichum coccodes†	1:100	1.3 oz	10 mins	RT
Didymella bryoniae†	1:100	1.3 oz	10 mins	RT
Fusarium oxysporum†	1:100	1.3 oz	10 mins	RT
Fusarium solani†	1:100	1.3 oz	10 mins	RT
Penicillium oxalicum†	1:100	1.3 oz	10 mins	RT
Phomopsis sclerotioides†	1:100	1.3 oz	10 mins	RT
Pyrenochaeta lycoopersici†	1:100	1.3 oz	10 mins	RT
Pythium aphanidermatum†	1:100	1.3 oz	10 mins	RT
Rhizoctonia solani†	1:100	1.3 oz	10 mins	RT
Sclerotinia sclerotiorum†	1:100	1.3 oz	10 mins	RT
Thielaviopsis basicola†	1:100	1.3 oz	10 mins	RT
Verticillium dahliae†	1:100	1.3 oz	10 mins	RT
Xanthomonas axonopodis†	1:100	1.3 oz	10 mins	RT

(RT= Room temperature= 20-22°C)]

[† Not approved for this use in California.]

[¹No hard water.]

[²Tested with 1% Soil load, and 342 ppm hard water.]

[Surface Area Coverage Comparison:

[One 10lb pail of Virkon™ S Disinfectant and Virucide* will provide enough in-use solution to disinfect 99,630 ft² of surface area for [PEDv][AI][PRRS]or[Porcine Rotavirus] biosecurity at a dilution rate of 1:600.]

[Number of gallons: in-use dilution (1:600) = 738 gallons]]

Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]

[Virkon™ Aquatic Disinfectant and Virucide* – ABN]

[trifectant™ Broad Spectrum Disinfectant – ABN]

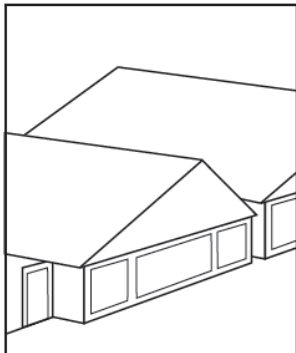
[Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]

[Virkon™ Professional – ABN]

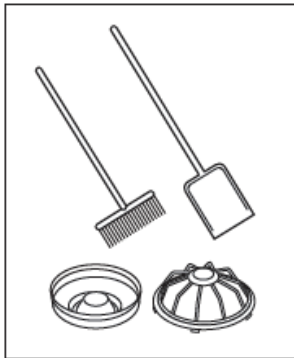
{Optional pictograms and text for marketing pamphlets}

[Virkon™ S in-use solutions can be used for:]

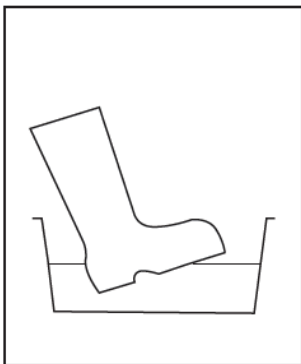
BARN SURFACES



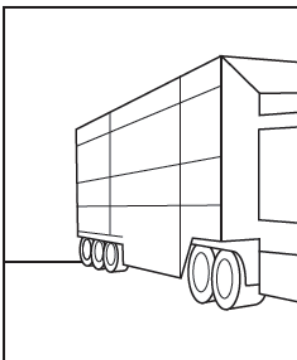
MOVABLE EQUIPMENT



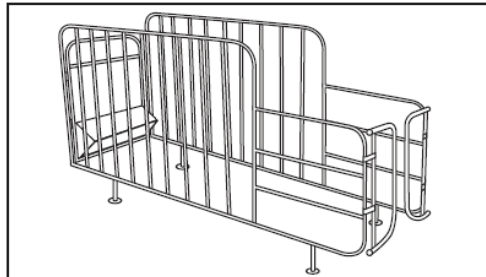
BOOTS & FOOTWEAR



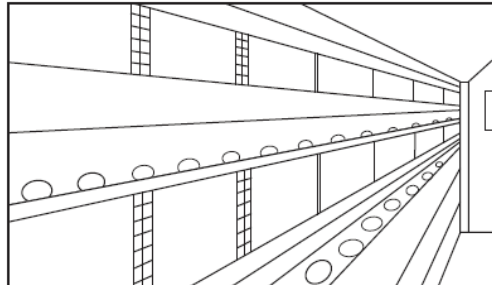
VEHICLES



SWINE STALL



POULTRY CAGES



Note to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Names: [Virkon™ S Disinfectant and Virucide* – ABN]
 [Virkon™ Aquatic Disinfectant and Virucide* – ABN]
 [trifectant™ Broad Spectrum Disinfectant – ABN]
 [Virkon™ VC Disinfectant and Virucide* for Veterinary – ABN]
 [Virkon™ Professional – ABN]

{Optional pictograms and text for containers and literature regarding product discount/sale language:}



{note to reviewer: product brand may appear in the below slogans corresponding to any of the ABNs approved by EPA for this registration. Virkon™ S is used as the example language and the product most likely to appear associated with this marketing text. All language is optional for use and does not impact dilution instructions or change net contents of packaging}

[For a Limited Time, You Will Receive 10% Product Free on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[For a Limited Time, You Can Receive 10% Free Product on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[10% Free Product! For a Limited Time on Your Order of Virkon™ S [10 kg] [22 lb.] Pails.]

[For a Limited Time, 10% Free Product on Your Virkon™ S [10 kg] [22 lb.] Pail Order!]

[10% Free Product on Your Virkon™ S [10 kg] [22 lb.] Pail Order!]

[10% Product Free on Your Order of Virkon™ S [10 kg] [22 lb.] Pails!]

[For a Limited Time, You Will Receive 10% Product Free [on Your Order [of Pails]]]

[For a Limited Time, You Can Receive 10% Free Product [on Your Order [of Pails]]]

[For a Limited Time, 10% Free Product [on Your [Pail]order!]]

[10% Free Product [on Your [Pail] Order][!]]

[10% Product Free [on Your Order]]